15-181. 20239-00-00 KANSAS CORPORATION COMMISSION STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	st:		ONE	POINTS	MOILIZ		ctions on Rev			LNADILII				
Open Flow				_			4.01	N= 45						
D	elivera	bilty			Test Date	∌:			API	No. 15				
Company Lobo Production, Inc.				** <u>**</u> ***	·	Lease Armstrong				2 2	Well Number			
County	-	110	Locati		Section		TWP	rong	RNG (E	(W)	2-2	Acres Attr	ibuted	
Sher	man			W NW	2		8 <i>S</i>			9W	·			
Field					Reservoi	r				hering Conne	ction			
Good	lan	d			Niob			44.		KN				
Completi					_	k Total Depti	h		Packer S	Set at				
	.0/8	3.3				054			5.4		То			
Casing Size 4.5		Weigh	t	Internal Diameter		Set at 1062 '		Perforations 970 ¹			990'			
4 • Tubing S			Weigh		Internal [Diameter	Set at		Perfo	rations				
rubing C	120		Weign	•										
Type Cor	•				Type Flu	d Production)		Pump Ui	nit or Traveling	Plunger? Yes	/ No		
Sing			sulus / Tubing)		% Carbo	n Dioxide			% Nitrog	en	Gas (Gravity - G		
	9	. (, ., .,			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							.6		
Vertical C	epth(i	H)	<u> </u>			Press	ure Taps					r Run) (Prov	er) Size	
		•									2"	Mete	Rui	
Pressure	Builde	μр:	Shut in 11	/13 X	¥ <u>00</u> at	8:00	(AM)(PM)	Taken	11/1	4 X X X X X X X X X X X X X X X X X X X	0_0_ at _8:0			
Well on L	ine:	\$	Started	1	9 at		(AM) (PM)	ľaken		19	at	(AN	И) (PM)	
			.			OBCEDVE	D CUDEACE	DATA			Duration of Chi	:-	Hay	
			Circle one:	Pressure	1	OBSERVE	D SURFACE		<u> </u>	Tubing	Duration of Shu	Jt-in		
Static /		rifice Meter or		Differential	Flowing	Well Head Temperature	rature (P_w) or (P_1) or (P_c)		Wellhead Pressure (P _w) or (P _t) or (P _c)		Duration	Liquid P	quid Produced	
Dynamic Property	•		Prover Pressu		t	temperature					(Hours)	(Hours) (8a		
			psig	Inches H ₂ 0	ļ- -		psig	psia	psig	psia				
Shut-In						<u> </u>	22		ļ					
Flow														
						FLOW STR	EAM ATTRI	BUTES						
Plate	,		Circle one:	Press	Grav	rity	Flowing	Dev	iation	Metered Flow		, i	Flowing	
Coeffied (F _b) (F			Meter or ver Pressure	Extension	Fac	or	emperature Factor		ctor	R	(Cubic f		Flowing Fluid Gravity G _m	
Mcfd			psia	√ P _m x H _w	F,	·	F,,	'	pv	(Mcfd)	Barre	;1)	G _m	
				· · · · · · · · · · · · · · · · · · ·	(OPEN FL	OW) (DELIV	ERABILITY)	CALCUL	ATIONS		(P	$a^{2} = 0.207$		
P _c)2 =		_:_	(P _w)² ≃_	:	P _d =	9	6 (P _c	- 14.4) +	14.4 =	: : ,	(P	_d) ² =		
(P _c)² - (F	> /s	/P	ر (P_)² - (P_)²	Theose formula 1 or 2 1. $P_c^2 \cdot P_s^2$	LOG of	Γ		sure Curve	i	Γ٦l	•	Open	Flow	
or (P _e) ² - (F	•/-	,,	ر ۱۰۰ (۱ ۵/۱۰)	2. P. ² - P. ²	formula 1. or 2.) = "N")/	nxl	.og Do.	Antilog	Deliver Equals R	-	
(P _c)²- (F	2 ₀)2			ivided by: $P_c^2 \cdot P_d^2$	and divide	P _c ² · P _u ²	Assi Standar	gned d Slope				Mo	_	
		,		<u> </u>										
Open Flow	v			Mcfd @ 14.6	5 psia		Deliverabilit	у		. N	1cfd @ 14.65 ps	sia		
The u	ndersi	igned	authority, on l	pehalf of the C	ompany, stat	es that he is	duly authoriz				that he has kno			
tated there	ein, ar	nd tha	t said report is	true and corre	ect. Execute	d 附层仍实现	<u>45</u>	day of	Dece	mber		, 1 5	00	
							N COMMISSIO	ON /	John A	San	Per	•		
			Witness (if	any)	<u> </u>			4	10 100	For C	ompany			
						DtC 19	2000							

CONSERVATION DIVISION
Wichita, Kansas

For Commission

Checked by

I declare under penalty or perjury under the laws of the state of Kansas that I am authorized to request exempt status under Rule K.A.R. 82-3-304 on behalf of the operator <u>Lobo Production</u> , <u>Inc.</u> and that the foregoing information and statements contained on this application form are true and correct to the best of my knowledge and belief based upon gas production records and records of equipment installation and/or of type completion or upon use of the gas well herein named. I hereby request a permanent exemption from open flow testing for the <u>Armstrong 2-2</u>
gas well on the grounds that said well: (Check one) is a coalbed methane producer
is a coalbed methatic producer is a coalbed methatic producer is a cycled on plunger lift due to water is a source of natural gas for injection into an oil reservoir undergoing ER is on vacuum at the present time; KCC approval Docket No
is incapable of producing at a daily rate in excess of 150 mcf/D
Date:12/15/00
Signature: John Sanders
Title: Owner/Operator

Instructions:

All active gas wells must have at least an original G-2 form on file with the conservation division. If a gas well meets the eligibility criteria set out in KCC regulation K.A.R. 82-3-304, the operator may complete the statement provided above in order to obtain a testing exemption.

At some point during the succeeding calendar year, wellhead shut-in pressure shall be measured after a minimum of 24 hours shut-in/buildup time and shall be reported on the front side of this form under "observed surface data." Shut-in pressure shall thereafter be reported yearly in the same manner.

The G-2 form conveying the newest shut-in pressure reading shall be filed with the Wichita office no later than thirty (30) days after the taking of the pressure reading. The form must be signed and dated on the front side as though it was a verified report of test results.